

## INTERNATIONAL SEARCH REPORT

Internal	Application No
PCT/GB 03/00669	

A. CLASSIFICATION OF SUBJECT MATTER		
IPC 7	H04L12/24	H04L12/56

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX, IBM-TDB

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>EP 1 035 703 A (LUCENT TECHNOLOGIES INC) 13 September 2000 (2000-09-13) abstract paragraphs '0028!, '0037!, '0038! claims 1-3,5,6; figures 1,2,5,6</p> <p>---</p> <p>-/-</p>	1-29

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the International filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the International filing date but later than the priority date claimed

- \*T\* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the International search report
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24 July 2003

31/07/2003

## Name and mailing address of the ISA

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>FORTZ B ET AL: "Internet traffic engineering by optimizing OSPF weights" INFOCOM 2000. NINETEENTH ANNUAL JOINT CONFERENCE OF THE IEEE COMPUTER AND COMMUNICATIONS SOCIETIES. PROCEEDINGS. IEEE TEL AVIV, ISRAEL 26-30 MARCH 2000, PISCATAWAY, NJ, USA, IEEE, US, 26 March 2000 (2000-03-26), pages 519-528, XP010376140 ISBN: 0-7803-5880-5 abstract page 521, left-hand column, paragraph II. -page 522, right-hand column, paragraph IV.</p> <p>---</p>	1-29
A	<p>GIRISH M K ET AL: "Formulation of the traffic engineering problems in MPLS based IP networks" FIFTH IEEE SYMPOSIUM ON COMPUTERS AND COMMUNICATIONS, ISCC 2000, 3 July 2000 (2000-07-03), pages 214-219, XP010505349 page 216, left-hand column, paragraph 3. -page 218, right-hand column, paragraph 4.</p> <p>---</p>	1-29
A	<p>PAPADOPOULOS C V ET AL: "PROTECTION AND ROUTING ALGORITHMS FOR NETWORK MANAGEMENT THE CASE OF TRANSMISSION NETWORKS" MICROPROCESSING AND MICROPROGRAMMING, ELSEVIER SCIENCE PUBLISHERS, BV., AMSTERDAM, NL, vol. 38, no. 1 / 5, 1 September 1993 (1993-09-01), pages 163-170, XP000383771 ISSN: 0165-6074 page 164, left-hand column, paragraph 1.1. -page 166, left-hand column, paragraph 2. page 168, left-hand column, paragraph 3. -page 170, left-hand column, paragraph 5.</p> <p>---</p>	1-29
A	<p>EP 1 043 871 A (NORTEL NETWORKS LTD) 11 October 2000 (2000-10-11) abstract paragraphs '0024!, '0025!, '0030!, '0045! figures 1,2,4</p> <p>---</p>	1,17, 26-29

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Inte... al application No.  
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### Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: 1-26, 28 because they relate to subject matter not required to be searched by this Authority, namely:  
see FURTHER INFORMATION sheet PCT/ISA/210
2.  Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3.  Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box II Observations where unity of Invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

#### Remark on Protest

- The additional search fees were accompanied by the applicant's protest.  
 No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Claims Nos.: 1-26,28

Rule 39.1(i) PCT - Mathematical method

The subject-matters of claims 1-26 and 28 are solely directed towards mathematical methods related to the generation and solution of a traffic flow model for calculating traffic values. Therefore, no complete search for these claims has been conducted. However, claims 1-29 have been searched partially based on the disclosure of the description part.

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Patent document cited in search report		Publication date		Patent family member(s)		Publication date
EP 1035703	A	13-09-2000	US	6314465 B1		06-11-2001
			DE	60000172 D1		27-06-2002
			DE	60000172 T2		14-11-2002
			EP	1035703 A1		13-09-2000
EP 1043871	A	11-10-2000	US	6570867 B1		27-05-2003
			EP	1043871 A2		11-10-2000
			JP	2000324137 A		24-11-2000